

(FILE 'USPAT' ENTERED AT 20:23:48 ON 30 SEP 1999)

L1 225 S 205/131-132/CCLST
L2 211 S FLEXIBLE(3A)ANODE#
L3 0 S L1 AND L2
L4 1419 S ANODE#(2A)WIRE#
L5 5 S L1 AND L4

=> d 1-5

1. 5,958,604, Sep. 28, 1999, Electrolytic process for cleaning and coating electrically conducting surfaces and product thereof; Vitalig M. Riabkov, et al., 428/612; 205/87, 95, 102, **131**, 148, 151, 219; 428/687, 935 [IMAGE AVAILABLE]
2. 5,700,366, Dec. 23, 1997, Electrolytic process for cleaning and coating electrically conducting surfaces; Valerij Leontievich Steblianko, et al., 205/87, 102, **131**, 148, 219 [IMAGE AVAILABLE]
3. 4,690,747, Sep. 1, 1987, Selective plating apparatus; Mark L. Smith, et al., 204/206, 224R, 225; 205/96, 129, **131** [IMAGE AVAILABLE]
off 21 Fig 7
4. 4,687,562, Aug. 18, 1987, Anode assembly for selectively plating electrical terminals; Mark L. Smith, et al., 204/206, 224R, 225, 280; **205/131** [IMAGE AVAILABLE]
off 15
5. 3,673,073, Jun. 27, 1972, APPARATUS FOR ELECTROPLATING THE INTERIOR OF AN ELONGATED PIPE; Ray Tobey, et al., 204/226, 224R, 275; **205/132** [IMAGE AVAILABLE]
lead wire 48 to chole 18

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L5 5 S L1 AND L4
L6 2203 S ANODE#(4A)WIRE#
L7 5 S L1 AND L6
L8 949 S (STAINLESS STEEL) (3A)ANODE#
L9 4 S L1 AND L8

=> d 1-4

1. 4,788,003, Nov. 29, 1988, Partial oxidation of ash-containing liquid hydrocarbonaceous and solid carbonaceous; Mitri S. Najjar, et al., 252/373; 48/197R, DIG.2; 205/131, 149, 151, 231, 232 [IMAGE AVAILABLE]
2. 4,738,995, Apr. 19, 1988, Preparation of epoxy binders for coatings; Petrus G. Kooijmans, et al., 523/404; 205/131, 317 [IMAGE AVAILABLE]
note: the epoxy compound is a solid powder placed within the can
3. 4,687,562, Aug. 18, 1987, Anode assembly for selectively plating electrical terminals; Mark L. Smith, et al., 204/206, 224R, 225, 280; 205/131 [IMAGE AVAILABLE]
4. 4,017,368, Apr. 12, 1977, Process for electroplating zirconium alloys; Daniel E. Wax, et al., 205/212, 131, 148, 220, 271, 284, 292, 296; 216/37, 108; 252/79.3; 376/417 [IMAGE AVAILABLE]
sum 22 for plating chromium or zirconium on steel anode

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L9 4 S L1 AND L8
L10 450 S 204/272/CCLS
L11 5 S L10 AND L4

=> d 1-5

1. 4,680,100, Jul. 14, 1987, Electrochemical cells and electrodes therefor; Louis G. Morin, 204/272, 242, 254, 268, 269, 275, 284, 286, 290R, 292, 294 [IMAGE AVAILABLE]
per 294 & 295, the subject is the stainless steel wire which is wrapped helically
- x 2. 4,201,650, May 6, 1980, Apparatus for continuous electrolytic descaling of steel wire with mill scales; Hiroo Nagano, et al., 204/209, 206, 272 [IMAGE AVAILABLE]
3. 4,039,422, Aug. 2, 1977, Metal recovery unit; Elliot L. Packer, 204/272, 269, 275, 284 [IMAGE AVAILABLE]
wire mesh shell
- x 4. 4,028,212, Jun. 7, 1977, Silver recovery apparatus; Woodrow L. Bowen, et al., 204/272, 234, 273, 275 [IMAGE AVAILABLE]
5. 3,954,592, May 4, 1976, Electrolysis apparatus; Stephen Horvath, 204/229.7, 230.5, 272, DIG.9; 205/341 [IMAGE AVAILABLE]
fig 4

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L10 450 S 204/272/CCLS
L11 5 S L10 AND L4
L12 13 S L10 AND L6
L13 8 S L12 NOT L11

=> d 1-8

- <1. 5,431,797, Jul. 11, 1995, Electrolytic-catalytic-electrochemical series potential cell for improving combustion of oxygenated hydrocarbon fuels; Draper M. Harvey, 204/272, 290R, 292 [IMAGE AVAILABLE]
- x 2. 5,364,512, Nov. 15, 1994, Electrochemical ionization apparatus system for purifying water; Floyd Earl, 210/138; 204/229.6, 272, 275, 292, 293; 210/169, 192 [IMAGE AVAILABLE]
- 1/24 3. 5,145,564, Sep. 8, 1992, Method of and apparatus for producing electrically-conductive probe tips; Heiko Lemke, et al., 205/664; 204/224M, 225, 272 [IMAGE AVAILABLE]
ESD 11 in Embodiment - invention wire connected as anode - electrode pilot
- x 4. 5,085,753, Feb. 4, 1992, Water purifier; Mark Sherman, 204/267, 271, 272, 286, 292, 293 [IMAGE AVAILABLE]
- x 5. 5,059,296, Oct. 22, 1991, Portable self-contained solar powered water purifier; Mark Sherman, 204/229.8, 267, 271, 272, 273, 277, 278, 279, 293, 660, 668, DIG.5; 210/85, 192 [IMAGE AVAILABLE]
- x 6. 4,675,085, Jun. 23, 1987, Method and apparatus for recovery of metal from solution; Adalberto Vasquez, 205/337; 204/228.2, 229.2, 272, 273, 275, 400, 435; 205/566 [IMAGE AVAILABLE]
- x 7. 4,525,272, Jun. 25, 1985, Electrochemical ionization system for purifying water; James H. Henson, 210/149; 204/228.6, 272; 210/192, 243 [IMAGE AVAILABLE]
8. 4,479,857; Oct. 30, 1984, Method and apparatus for radon control; Hugh M. Barton, Jr., 204/550, 272, 275, 284, 515; 423/2 [IMAGE AVAILABLE]

per 10

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L11 5 S L10 AND L4
L12 13 S L10 AND L6
L13 8 S L12 NOT L11
L14 105 S 205/286/CCLS
L15 10 S 205/288/CCLS
L16 939 S 204/286/CCLS
L17 316 S 204/288/CCLS
L18 27 S L16 AND L4
L19 0 S L17 AND L7
L20 7 S L17 AND L4
L21 33 S L18 OR L20

=> d 1-33

1. 5,958,206, Sep. 28, 1999, Process for producing a corrosion and wear-resistant oxide layer with locally reduced layer thickness on the metal surface of a workpiece; Horst Rothbauer, et al., 205/96; 204/224R, 279, **286**, DIG.7; 205/136, 324 [IMAGE AVAILABLE]
2. 5,372,687, Dec. 13, 1994, Cathodic protection disk anode; Gerald R. Pohto, et al., 204/196.31, 196.36, 280, **286**, 290R [IMAGE AVAILABLE]
3. 5,277,777, Jan. 11, 1994, Insoluble anode for electrolyses in aqueous solutions; Marco Olper, et al., **204/286**, 290F, 290R, 297R, 297W [IMAGE AVAILABLE]
4. 4,946,570, Aug. 7, 1990, Ceramic coated strip anode for cathodic protection; Ashok Kumar, 204/196.3, 196.31, 279, 280, **286**, 290F, 297R [IMAGE AVAILABLE] *anode with 4,187,164 ... cathodic wire anode*
5. 4,936,969, Jun. 26, 1990, Water tank cathodic protection system; Robert A. Garlinger, 204/196.33, **286**, 290F, 297R [IMAGE AVAILABLE] *anode with 3,946,570*
6. 4,915,808, Apr. 10, 1990, Anode and capsule assembly for automotive cathodic protection; David F. McCready, et al., 204/196.38, 280, **286**, 291, 294; 439/589, 604, 606, 658, 751 [IMAGE AVAILABLE]
7. 4,830,724, May 16, 1989, Stamped metal anode cap assembly; Timothy H. Houle, 204/196.18, **286**; 392/457 [IMAGE AVAILABLE] *anode*
8. 4,798,657, Jan. 17, 1989, Cathodic protection system; Richard J. Kochilla, et al., 205/738; 204/196.29, 196.34, 196.35, **286**, 297R; 205/740 [IMAGE AVAILABLE] *anode with 4,798,657*

9. 4,786,390, Nov. 22, 1988, Anode configuration for nickel-phosphorus electroplating; John Lichtenberger, et al., 204/242, 286, 288, 289, 290F, 290R, 292 [IMAGE AVAILABLE]
used in the use of the sh. l. fish ... wire could communicate with the tube or tank
10. 4,762,603, Aug. 9, 1988, Process for forming electrodes; Louis G. Morin, 204/279; 174/74R; 204/280, 284, 286, 290R; 439/874 [IMAGE AVAILABLE]
11. 4,690,748, Sep. 1, 1987, Plastic electrochemical cell terminal unit; Richard N. Beaver, et al., 204/279, 280, 284, 286; 429/211, 234 [IMAGE AVAILABLE]
12. 4,680,100, Jul. 14, 1987, Electrochemical cells and electrodes therefor; Louis G. Morin, 204/272, 242, 254, 268, 269, 275, 284, 286, 290R, 292, 294 [IMAGE AVAILABLE]
13. 4,668,371, May 26, 1987, Structural frame for an electrochemical cell; John R. Pimlott, et al., 204/253, 267, 279, 286, 290F, 290R [IMAGE AVAILABLE]
14. 4,666,580, May 19, 1987, Structural frame for an electrochemical cell; Richard N. Beaver, et al., 204/254, 268, 279, 286 [IMAGE AVAILABLE]
15. 4,561,959, Dec. 31, 1985, Flat-plate electrolytic cell; John R. Pimlott, 204/253, 279, 282, 283, 288 [IMAGE AVAILABLE]
16. 4,400,259, Aug. 23, 1983, Deep anode assembly; William R. Schutt, 204/196.33, 196.36, 196.38, 286, 297R [IMAGE AVAILABLE]
17. 4,374,014, Feb. 15, 1983, High pressure electrolytic oxygen generator; Robert E. Smith, et al., 204/260, 266, 283, 288, 289 [IMAGE AVAILABLE]
18. 4,329,218, May 11, 1982, Vertical cathode pocket assembly for membrane-type electrolytic cell; Marius W. Sorenson, et al., 204/283, 266, 286 [IMAGE AVAILABLE]
19. 4,224,126, Sep. 23, 1980, Anode assembly for hot water heaters; Arthur W. Bidwell, 204/196.19, 286 [IMAGE AVAILABLE]
20. 4,170,532, Oct. 9, 1979, Deep well platinized anode carrier for cathodic protection system; Joe F. Tatum, 204/196.3, 196.36, 196.38, 284, 286, 290F [IMAGE AVAILABLE]
21. 4,154,665, May 15, 1979, Diaphragm cell; Thomas W. Boulton, 204/253, 256, 284, 286, 290F [IMAGE AVAILABLE]
22. 4,141,814, Feb. 27, 1979, Diaphragm cell; Thomas W. Boulton, 204/252, 284, 288, 290F, 296 [IMAGE AVAILABLE]
23. 4,126,534, Nov. 21, 1978, Monopolar electrolytic cell electrodes; Thomas W. Boulton, 204/266, 288, 290F [IMAGE AVAILABLE]
24. 4,124,479, Nov. 7, 1978, Bipolar unit; Thomas W. Boulton, 204/256, 288, 290F, 296 [IMAGE AVAILABLE]
25. 4,093,529, Jun. 6, 1978, Resistor anode for metal tank; Carl G. Strobach, 204/196.11, 196.18, 286; 267/158, 161 [IMAGE AVAILABLE]
26. 4,064,034, Dec. 20, 1977, **Anode** structure for **wire** and strip

line electroplating; Frederick Walter Eppensteiner, et al., 204/286, 206, 297R [IMAGE AVAILABLE]

27. 4,022,679, May 10, 1977, Coated titanium anode for amalgam heavy duty cells; Konrad Koziol, et al., 204/286, 219, 290F [IMAGE AVAILABLE]

28. 3,994,794, Nov. 30, 1976, Sacrificial anode; Alvin W. Bohne, 204/196.16, 196.23, 280, 286 [IMAGE AVAILABLE]

29. 3,947,343, Mar. 30, 1976, Electrotinning wire; James Delves-Broughton, et al., 204/207, 206, 211, 286; 205/140, 215 [IMAGE AVAILABLE]

30. 3,855,102, Dec. 17, 1974, WATER TANK ANODE SUSPENSION; James D. Palmer, 204/196.34, 286, 297R [IMAGE AVAILABLE]

31. 3,844,921, Oct. 29, 1974, ANODE CONTAINING PIN-TYPE INSERTS; Risque L. Benedict, 204/196.38, 280, 288, 289, 290F, 292 [IMAGE AVAILABLE]

32. 3,803,012, Apr. 9, 1974, CATHODIC PROTECTION ANODE CLAMP ASSEMBLY; George W. Kurr, 204/196.16; 24/569; 204/196.17, 286, 297R [IMAGE AVAILABLE]

33. 3,616,418, Oct. 26, 1971, ANODE ASSEMBLY FOR CATHODIC PROTECTION SYSTEMS; Edward P. Anderson, et al., 204/196.35, 196.38, 286, 290F, 297R; 405/211.1 [IMAGE AVAILABLE]

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L19 0 S L17 AND L7
L20 7 S L17 AND L4
L21 33 S L18 OR L20
L22 94310 S HELIX OR HELICAL
L23 5 S L22 AND L1
L24 83 S HELICAL SPACER#
L25 25095 S 205/CLAS
L26 0 S L24 AND L25
L27 38297 S 204/CLAS
L28 0 S L27 AND L24
L29 239 S (HELICAL OR HELIX) (3A)SPACER#
L30 2 S L29 AND L25
L31 4 S L29 AND L27
L32 4 S L30 OR L31

=> d 1-4

X1. 5,589,085, Dec. 31, 1996, Process of manufacturing a detecting unit for an electrolytic cell with thin film electrodes; Jacob Mettes, 216/65; 73/335.02; **204/430**; **205/788**; 216/66, 75; 427/125 [IMAGE AVAILABLE]

X2. 4,898,926, Feb. 6, 1990, Bioelastomer containing tetra/penta-peptide units; Dan W. Urry, 528/328; **204/403**; 528/184, 327 [IMAGE AVAILABLE]

- 3. 4,872,959, Oct. 10, 1989, Electrolytic treatment of liquids; Robert J. Herbst, et al., **205/566**; **204/229.6**, **230.5**, **272**; **205/688**, **695**, **756**, **757**; 422/186.04, 186.18 [IMAGE AVAILABLE]

- 4. 4,293,400, Oct. 6, 1981, Electrolytic treatment of water; James J. Liggett, **204/272**, **667** [IMAGE AVAILABLE]

d3 label indicating spacer

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L17 316 S 204/288/CCLS
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L19 0 S L17 AND L7
L20 7 S L17 AND L4
L21 33 S L18 OR L20
L22 94310 S HELIX OR HELICAL
L23 5 S L22 AND L1

=> d 1-5

- ✕ 1. 5,544,209, Aug. 6, 1996, Process for repairing and protecting from cracking the inner wall of a tube for penetrating the bottom head of a pressurized-water nuclear reactor vessel; Bernard Michaut, et al., 376/260; 205/115, **131**; 376/254, 305 [IMAGE AVAILABLE]
- ✕ 2. 4,345,977, Aug. 24, 1982, Method and apparatus for depositing metal in a large diameter cylindrical bore which passes through a large part; Jacques Blanc, et al., **205/131**; 204/272, 273 [IMAGE AVAILABLE]
- ✕ 3. 4,253,917, Mar. 3, 1981, Method for the production of copper-boron carbide composite; Chih-Chang Wang, **205/131**, 183 [IMAGE AVAILABLE]
- ✕ 4. 4,149,132, Apr. 10, 1979, Method of manufacturing an electromagnet; Hermann Richter, et al., 335/262; **205/131**, 197, 217, 224 [IMAGE AVAILABLE]
- ✕ 5. 4,105,512, Aug. 8, 1978, Method for the manufacture of a superconductive Nb.sub.3 Sn layer on a niobium surface for high frequency applications; Hans Martens, deceased, et al., 148/98; 29/599; 205/106, **131**, 170, 171, 199, 220, 228, 324, 333; 427/62, 250; 505/919 [IMAGE AVAILABLE]